AI-100^{Q&As}

Designing and Implementing an Azure AI Solution

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QUESTION 1

Your company has factories in 10 countries. Each factory contains several thousand IoT devices.

The devices present status and trending data on a dashboard.

You need to ingest the data from the IoT devices into a data warehouse.

Which two Microsoft Azure technologies should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Azure Stream Analytics

B. Azure Data Factory

C. an Azure HDInsight cluster

D. Azure Batch

E. Azure Data Lake

Correct Answer: CE

With Azure Data Lake Store (ADLS) serving as the hyper-scale storage layer and HDInsight serving as the Hadoop-based compute engine services. It can be used for prepping large amounts of data for insertion into a Data Warehouse

References: https://www.blue-granite.com/blog/azure-data-lake-analytics-holds-a-unique-spot-in-the-modern-data-architecture

QUESTION 2

You need to build an API pipeline that analyzes streaming data. The pipeline will perform the following:

1.

Visual text recognition

2.

Audio transcription

3.

Sentiment analysis

4.

Face detection

Which Azure Cognitive Services should you use in the pipeline?

A. Custom Speech Service

B. Face API

C. Text Analytics

D. Video Indexer

Correct Answer: D

Azure Video Indexer is a cloud application built on Azure Media Analytics, Azure Search, Cognitive Services (such as the Face API, Microsoft Translator, the Computer Vision API, and Custom Speech Service). It enables you to extract the insights from your videos using Video Indexer video and audio models described below:

1.

Visual text recognition (OCR): Extracts text that is visually displayed in the video.

2.

Audio transcription: Converts speech to text in 12 languages and allows extensions.

3.

Sentiment analysis: Identifies positive, negative, and neutral sentiments from speech and visual text.

4.

Face detection: Detects and groups faces appearing in the video.

References: https://docs.microsoft.com/en-us/azure/media-services/video-indexer/video-indexer-overview

QUESTION 3

You are designing an AI solution that will provide feedback to teachers who train students over the Internet. The students will be in classrooms located in remote areas. The solution will capture video and audio data of the students in the classrooms.

You need to recommend Azure Cognitive Services for the AI solution to meet the following requirements:

1.

Alert teachers if a student seems angry or distracted.

2.

Identify each student in the classrooms for attendance purposes.

3.

Allow the teachers to log the text of conversations between themselves and the students. Which Cognitive Services should you recommend?

A. Computer Vision, Text Analytics, and Face API

B. Video Indexer, Face API, and Text Analytics

C. Computer Vision, Speech to Text, and Text Analytics

D. Text Analytics, QnA Maker, and Computer Vision

E. Video Indexer, Speech to Text, and Face API

Correct Answer: E

Azure Video Indexer is a cloud application built on Azure Media Analytics, Azure Search, Cognitive Services (such as the Face API, Microsoft Translator, the Computer Vision API, and Custom Speech Service). It enables you to extract the insights from your videos using Video Indexer video and audio models.

Face API enables you to search, identify, and match faces in your private repository of up to 1 million people.

The Face API now integrates emotion recognition, returning the confidence across a set of emotions for each face in the image such as anger, contempt, disgust, fear, happiness, neutral, sadness, and surprise. These emotions are

understood to be cross-culturally and universally communicated with particular facial expressions.

Speech-to-text from Azure Speech Services, also known as speech-to-text, enables real-time transcription of audio streams into text that your applications, tools, or devices can consume, display, and take action on as command input. This

service is powered by the same recognition technology that Microsoft uses for Cortana and Office products, and works seamlessly with the translation and text-to-speech.

Incorrect Answers:

Computer Vision or the QnA is not required.

References:

https://docs.microsoft.com/en-us/azure/media-services/video-indexer/video-indexer-overview

https://azure.microsoft.com/en-us/services/cognitive-services/face/

https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/speech-to-text

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QUESTION 4

Your company plans to create a mobile app that will be used by employees to query the employee handbook.

You need to ensure that the employees can query the handbook by typing or by using speech.

Which core component should you use for the app?

A. Language Understanding (LUIS)

B. QnA Maker

C. Text Analytics

D. Azure Search

Correct Answer: A

"Together, Language Understanding and Azure Bot Service enable developers to create conversational interfaces for various scenarios like banking, travel, and entertainment. For example, a hotel\\'s concierge can use a bot to enhance traditional e-mail and phone call interactions by validating a customer via Azure Active Directory and using Cognitive Services to better contextually process customer requests using text and voice. The Speech recognition service can be added to support voice commands"

QUESTION 5

The development team at your company builds a bot by using C# and .NET. You need to deploy the bot to Azure.

Which tool should you use?

A. the .NET Core CLI

B. the Azure CLI

C. the Git CLI

D. the AzCopy toll

Correct Answer: B

The deployment process documented here uses one of the ARM templates to provision required resources for the bot in Azure by using the Azure CLI.

Note: When you create a bot using the Visual Studio template, Yeoman template, or Cookiecutter template the source code generated includes a deploymentTemplates folder that contains ARM templates.

References:

https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-deploy-az-cli